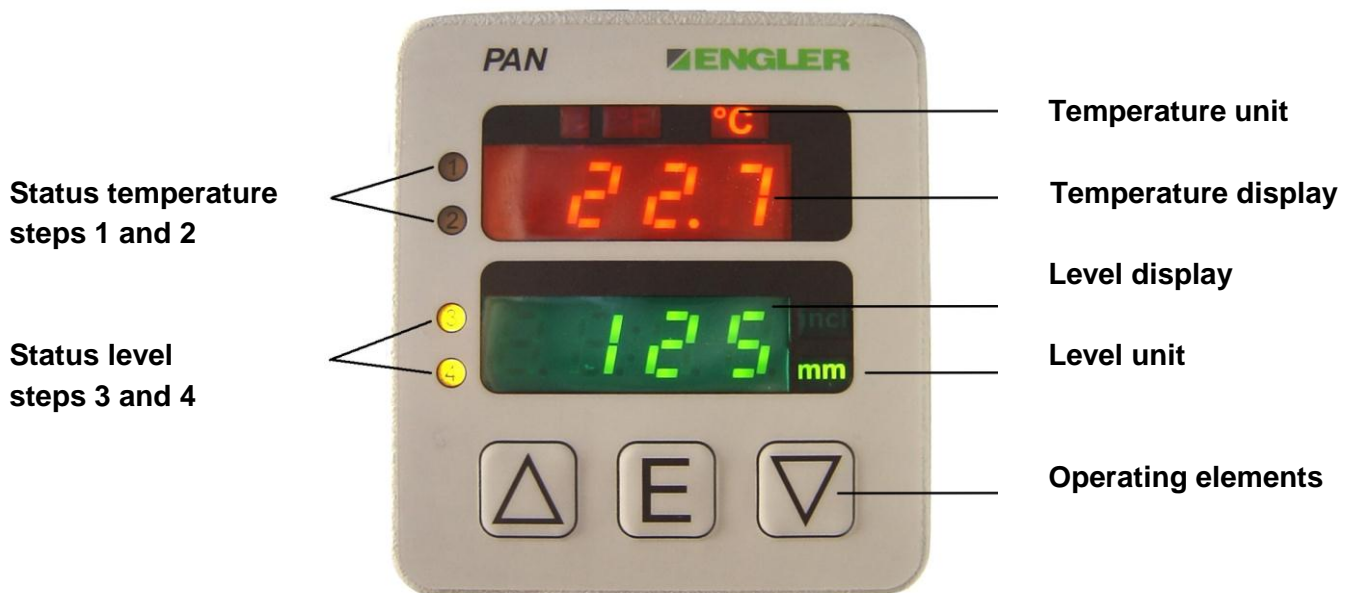


View of the controller



Controller operating instructions

Switching on:

When the PAN 1 is commissioned, the red display "P A n" and green display "t n 1.2" appear at the controller for a period of 2 seconds. After that the last four numerals of the part number appear for 1 second and then the actual values.

Menu points

- View parameters
- Set parameters

Operation (can be set using the keys):

- Parameter list with the ▲ and ▼ keys
- Parameter adjustment with the E key
- Parameter setting with the ▲ and ▼ keys

Indication in the parameter field

S. e. t . .	Access to parameter setting
S. P. . x.	Switching point for step x.
r . P. . x.	Reset point for step x.
o. u. t . x.	Output switching behaviour for step x.
H. . n . o.	Output hysteresis n.o. contact.
H. . n . c.	Output hysteresis n.c. contact.
F. . n . o.	Output window n.o. contact
F. . n . c.	Output window n.c. contact.
E. F. . .	Extended functions
U. n . . t.	Temperature unit.
U. n . . L.	Level units.
F. o . . x.	Output sw. behaviour step x in case of error.
n . o.	Output n.o. contact
n . c.	Output n.c. contact.
S. n . . x.	Current source, end value for 20mA.
O. F. . x.	Current source, start value for 4mA.
n. P. . .	Zero point value for level.
E. n. d . .	End parameter setting.

Menu structure

End parameter setting	End
Extended functions	EF
Switching behaviour	out 4
Step 4 Reset point	r P 4
Switching point	SP 4
Switching behaviour	out 3
Step 3 Reset point	r P 3
Switching point	SP 3
Switching behaviour	out 2
Step 2 Reset point	r P 2
Switching point	SP 2
Switching behaviour	out 1
Step 1 Reset point	r P 1
Switching point	SP 1
Access parameter setting	Set

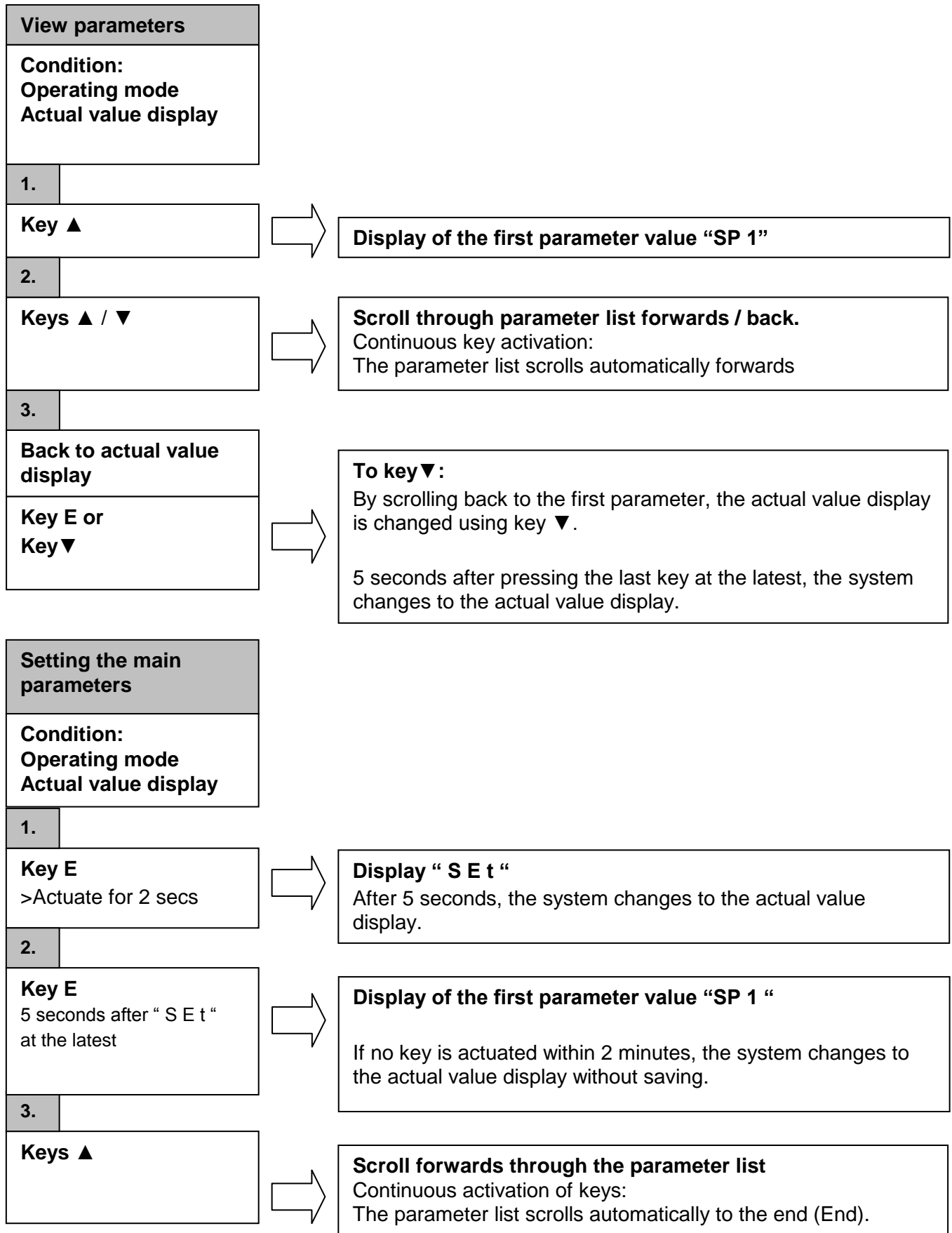
Main parameters



End	End parameter setting
nP	Zero point, level
OF 2	s/e- value for 4.. 20mA optional
Sn 2	Current source, level
OF 1	s/e- value for 4.. 20mA optional
Sn 1	Current source, temp.
Fo 4	Output switching behaviour In case of error
Fo 3	
Fo 2	
Fo 1	
Un L	Level unit
Un t	Temperature unit

--E -->
< ----- --|

Extended functions



4.

With the ▲ / ▼ keys

Screw forwards / back through the parameter list.

Parameter selected
Key E

Right-hand decimal place flashes in numerical values
Function flashes, e.g. H nc, for Parameter out..

5.

Keys ▲ / ▼

Set the value using key ▲ + or ▼ - .

If the value is outside the setting range, the limit is automatically specified.

6.

Confirmation of the set value
Key E

The next decimal place flashes

7.

Repeat points 5 and 6

No decimal place flashing

The set value is being checked with its countervalue for plausibility.

If the check throws up an error, the new value is rejected and the last valid value restored.

Setting extended functions EF

8.

Keys ▲

Parameter list forwards as far as EF.

9.

Key E

Un t Select temperature unit °C or °F

10

Key E

Un t Unit °C or °F flashes

11

Keys ▲ / ▼



Select unit °C or °F

12

Key E



Selected unit is displayed

Using the keys ▲ / ▼

Additional functions (see menu structure) can be accessed in the extended menu. To set the functions, proceed as described under point 9 to point 12.

Back to actual value display

Key ▲



Scroll forwards through parameter list as far as "E n d".
(In main parameters and extended functions)
Continuous activation of the key: the parameter list scrolls through automatically to the end (End).

13

Key E



Actual value display

Malfunction

Temperature sensor:

Temperature actual value display indicates "Err" and the status LED's 1 + 2 flash. The temperature outputs are deactivated and set in accordance with Fo 1 + Fo 2. The temperature power source gets adjusted to the value $\leq 3,6$ mA.

Level sensor:

Level actual value display indicates "Err" and the status LED's 3 + 4 flash. The level outputs are deactivated and set in accordance with Fo 3 + Fo 4. The level power source gets adjusted to the value $\leq 3,6$ mA.

Output short circuit:

The output gets deactivated and the appropriate status LED flashes. Cyclical examination whether the short-circuit is eliminated.